

Java Operator Precedence Chart

<u>Operator</u>	<u>Type</u>	<u>Associativity</u>
()	parentheses	left to right
[]	array subscript	
.	member selection	
++	unary postincrement	right to left
--	unary postdecrement	
++	unary preincrement	right to left
--	unary predecrement	
+	unary plus	
-	unary minus	
!	unary logical negation	
~	unary bitwise complement	
(<i>type</i>)	unary cast	
*	multiplication	left to right
/	division	
%	modulus	
+	addition	left to right
-	subtraction	
<<	bitwise left shift	left to right
>>	bitwise right shift with sign extension	
>>>	bitwise right shift with zero extension	
<	relational less than	left to right
<=	relational less than or equal to	
>	relational greater than	
>=	relational greater than or equal to	
instanceof	type comparison	
==	relational is equal to	left to right
!=	relational is not equal to	

Java Operator Precedence Chart

<u>Operator</u>	<u>Type</u>	<u>Associativity</u>
&	bitwise AND	left to right
^	bitwise exclusive OR boolean logical exclusive OR	left to right
	bitwise inclusive OR boolean logical inclusive OR	left to right
&&	logical AND	left to right
	logical OR	left to right
? :	ternary conditional	right to left
=	assignment	right to left
+=	addition assignment	
-=	subtraction assignment	
*=	multiplication assignment	
/=	division assignment	
%=	modulus assignment	
&=	bitwise AND assignment	
^=	bitwise exclusive OR assignment	
=	bitwise inclusive OR assignment	
<<=	bitwise left shift assignment	
>>=	bitwise right shift with sign extension assignment	
>>>=	bitwise right shift with zero extension assignment	

Author: Ashur Cherry
York University
Title: *Java Operator Precedence Chart*
Publisher: Toronto, Ontario
Copyright: 2003
Ref. No.: 006

Reference

Deitel, Harvey M. and P.J. Deitel. "Operator Precedence Chart." *Java: How To Program*. 3rd ed. Upper Saddle River, NJ: Prentice Hall, ©1999. pp. 1240-1241.